What is claimed is:

1. A method for making a thin-film device, the method comprising:

providing a substrate having a major surface area, the substrate having a
first layer on a first surface area of the substrate's major surface area;

depositing second layer onto the first layer, wherein the depositing of the second layer includes energizing the second layer without substantially heating the substrate.

- 2. The method according to claim 1, wherein the first and second layers are part of a battery, the method further comprising:

 depositing a photovoltaic cell on the battery.
- 3. The method according to claim 2, the method further comprising: attaching an integrated circuit to the substrate; and operatively coupling the integrated circuit to charge the battery using current from the photovoltaic cell.
- 4. The method according to claim 1, wherein the first and second layers are deposited on the substrate while the substrate moves in a continuous motion.
- 5. The method according to claim 1, wherein the substrate is a flexible material supplied from a roll, and the first and second layers are deposited on the substrate while the substrate moves in a continuous motion.
- 6. The method according to claim 1, wherein the first and second layer forms a cathode layer of a battery including the cathode layer; an anode layer, and an electrolyte layer located between and electrically isolating the anode layer from the cathode layer, wherein the anode or the cathode or both include an intercalation material.

- 7. The method according to claim 1, further comprising depositing an electrical circuit on the battery.
- 8. The method according to claim 1, wherein the substrate is a rigid material supplied from a cassette, and the first and second layers are deposited on the substrate while the substrate moves in a continuous motion.
- 9. The method according to claim 1, wherein the substrate is a polymer material having a melting point below about 700 degrees Celsius.
- 10. The method according to claim 1, wherein the energizing of the second layer includes supplying ions of at least 5eV.
- 11. A system for making a thin-film device, the system comprising:
 a substrate-supply station that supplies a substrate having a major surface
 area, the substrate having a first layer on a first surface area of the substrate's major
 surface area;
- a deposition station that deposits a second layer onto the first layer, wherein the deposition station supplies energy to the second layer to aid in layer formation without substantially heating the substrate.
- 12. The system according to claim 11, wherein the first and second layers are part of a battery, the system further comprising:
 - a deposition station that deposits a photovoltaic cell on the battery.
- 13. The system according to claim 12, the system further comprising:
 a station that attaches an integrated circuit to the substrate; and
 a wiring station that forms conductive paths between the integrated circuit,
 the battery and the photovoltaic cell.

- 14. The system according to claim 11, the system further comprising:
 a motion device that move the substrate, wherein the first and second layers
 are deposited on the substrate while the substrate moves in a continuous motion.
- 15. The system according to claim 11, wherein the substrate is a flexible material supplied from a roll, and the first and second layers are deposited on the substrate while the substrate moves in a continuous motion.
- 16. The system according to claim 11, wherein the first and second layer forms a cathode layer of a battery including the cathode layer; an anode layer, and an electrolyte layer located between and electrically isolating the anode layer from the cathode layer, wherein the anode or the cathode or both include an intercalation material.
- 17. The system according to claim 11, further comprising a deposition station that deposits an electrical circuit on the battery.
- 18. The system according to claim 11, wherein the substrate is a rigid material supplied from a cassette, and the first and second layers are deposited on the substrate while the substrate moves in a continuous motion.
- 19. The system according to claim 11, wherein the substrate is a polymer material having a melting point below about 700 degrees Celsius.
- 20. The system according to claim 11, wherein the energizing of the second layer includes supplying ions of at least 5eV.

21. A system for making a thin-film device, the system comprising:

a substrate-supply station that supplies a substrate having a major surface area, the substrate having a first layer on a first surface area of the substrate's major surface area;

means for depositing a second layer onto the first layer, wherein the means supplies energy to the second layer to aid in layer formation without substantially heating the substrate.

22. A system for making a thin-film device, the system comprising:
a substrate-supply station that supplies a substrate having a major surface area;

a plurality of deposition stations that deposit layers onto the substrate, wherein the deposition station supplies energy to the layer to aid in layer formation without substantially heating the substrate.

- 23. The system for making a thin-film device of claim 22 wherein the substratesupply station supplies a continuous plastic sheet.
- 24. The system for making a thin-film device of claim 22 wherein the substratesupply station supplies a continuous set of wafers.
- 25. The system for making a thin-film device of claim 22 wherein the plurality of deposition stations deposit a thin film battery.
- 26. The system for making a thin-film device of claim 22 wherein the plurality of deposition stations deposits a capacitor.
- 27. The system for making a thin-film device of claim 22 wherein the plurality of deposition stations deposits a thin film battery and a device powered by the thin film battery.

- 28. The system for making a thin-film device of claim 22 wherein the plurality of deposition stations deposit a thin film battery and a device powered by the thin film battery, wherein the device is deposited onto the thin film battery.
- 29. The system for making a thin-film device of claim 22 wherein the plurality of deposition stations deposit a thin film battery and a set of traces for electrically connecting a device to the thin film battery.
- 30. The system for making a thin-film device of claim 29 further comprising a placement device for placing components onto the traces.
- 31. The system for making a thin-film device of claim 22 wherein the at least one deposition station deposits an energy-conversion device.